



City of Long Beach



Gas and Oil Department 2006 Calendar





Hello! As Director of the Long Beach Gas and Oil Department (LBGO), I am pleased to bring you this 2006 calendar. The calendar is designed to let you know about the City's newly created Gas and Oil Department and the services it provides to Long Beach area residents and businesses. LBGO consists of three primary business units – the natural gas utility, oil operations, and waste-to-energy facility. The calendar contains a great deal of useful information that we are required by Federal regulations to provide to our customers regarding natural gas and how to use it in a safe and efficient manner.

Natural Gas Utility – Established in 1924, the natural gas utility under LBGO provides service to approximately 500,000 residents and businesses in the cities of Long Beach and Signal Hill. Delivered through over 1,800 miles of LBGO pipelines, our natural gas is safely provided to your home to keep you warm in the winter months, to cook your food, heat the water in your showers and baths, and dry your clothes. We quickly respond to your requests for service and are available 24-hours a day, seven-days a week for emergency response. Our rates for gas services are set comparable with other Southern California gas utilities and historically have resulted in the lowest average residential gas bills in Southern California. As the citizens of Long Beach are also the owners of our gas utility, our revenues provide not only our gas services and maintaining of our pipeline system, but also are used to help pay for vital community services such as police, fire, parks, and library services.

Oil Operations – For both the State of California and the City, LBGO manages the oil and natural gas production, including the offshore oil islands. This management by LBGO provides the necessary oversight to ensure that all such production is performed in a safe and environmentally sound manner, maximizes long-term overall financial benefit, and protects the City from potential subsidence issues.

Waste-to-Energy – Jointly owned by the City and the Los Angeles County Sanitation District, the SouthEast Resource Recovery Facility (SERRF) has for years provided a unique and valuable service. All residential refuse collection in the cities of Long Beach and Lakewood is brought to SERRF and disposed of by burning the refuse and using the heat produced to generate enough electricity to serve 35,000 homes on a daily basis. This process not only generates the electricity that is then sold to Southern California Edison but also saves the citizens of Long Beach and Lakewood in refuse disposal costs by avoiding the otherwise necessary transportation of this refuse by trucks on freeways to faraway landfills.

We hope you will use the attached self-addressed stamped post card to tell us how we are doing or to request additional information on any of our services provided. Your input is welcome as we continue to seek ways to better serve our customers.

On behalf of all the employees of your Long Beach Gas and Oil Department, please have a healthy and safe New Year!

A handwritten signature in black ink, appearing to read "Chris Garner".

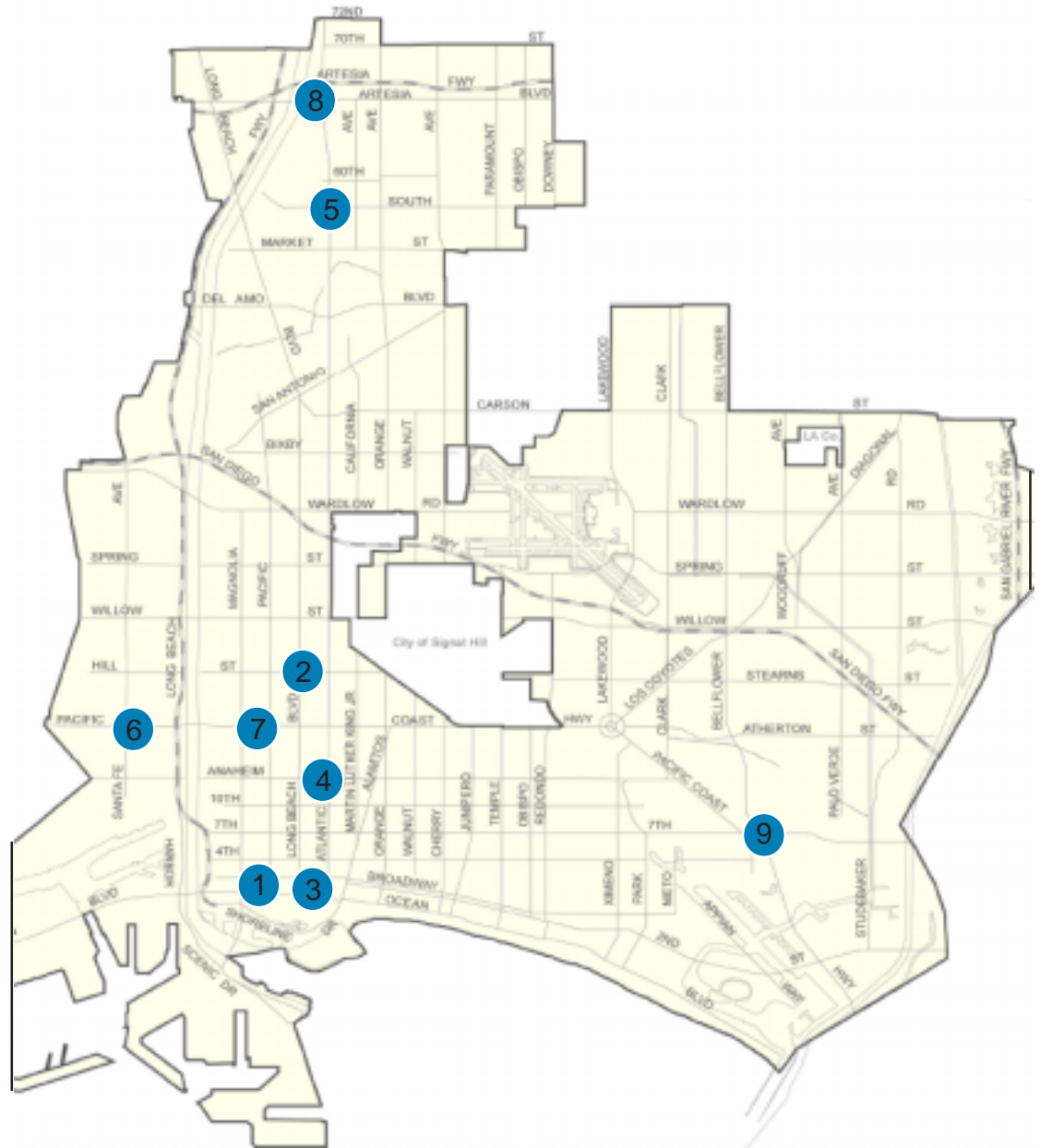
Christopher J. Garner
Director of Long Beach Gas and Oil



Did You Know That You Can Pay Your Gas, Water, Sewer, and Refuse Bills at the Following Locations?

- 1) Long Beach City Hall - Lobby
333 West Ocean Blvd. (562) 570-5700
- 2) A & M Market
2202 Long Beach Blvd. (562) 988-1096
- 3) Atlantic Mail Plus
404 East 1st St. (562) 590-0503
- 4) Family Pharmacy
1400 Atlantic Ave. (562) 591-4417
- 5) Gage Pharmacy
5735 Atlantic Ave. (562) 423-8437
- 6) Long Beach Travel
1670 West Pacific Coast Hwy (562) 983-7827
- 7) Nix Check Cashing # 21
300 West Pacific Coast Hwy (562) 599-2955
- 8) Nix Check Cashing # 26
6583 Atlantic Ave. # 106 (562) 428-5800
- 9) One Hour Photo-Copies-Mail
5710 East 7th St. (562) 961-1976

Payments can also be made with your credit card by calling (562) 570-5700 or via our website at www.lbgo.org through the on-line service directory. For Turn ons/off, call (562) 570-5700.



What is natural gas?

Natural gas is made up of hydrocarbon gases, primarily methane.

Where is natural gas found?

Gas is usually found deep below the earth's surface, often with deposits of oil.

How is natural gas produced?

Gas is removed from wells that are drilled to access petroleum deposits. After it reaches the surface, the gas is separated from any oil and water present in the petroleum deposit. Gas is then processed to remove impurities, such as propane and butane gases.

What are some of the qualities of natural gas?

- ♦ Natural gas is lighter than air, nontoxic, and contains no poisonous ingredients.
- ♦ Breathing natural gas is not harmful as long as there is an adequate supply of fresh air to breathe along with it.
- ♦ Natural gas by itself will not burn.
- ♦ Combustion or explosion can occur only when there is a mixture of gas and air containing between 5% - 15% of natural gas and an ignition source.

Why does natural gas smell?

An odorant that smells like rotten eggs is added to natural gas so that it can be detected. The odor is a warning to let people know that natural gas may be present and any spark can ignite it, which may cause personal injury or property damage.

How is natural gas transported?

Natural gas is transported in an underground system of large-diameter pipes. The force that propels the gas is its pressure, which gradually dissipates as it travels through the pipeline. A series of compressor stations are positioned along the pipeline's path. Each station has a number of large compressors that increase the pressure of the gas to push it to the next station. This process is used along the entire pipeline infrastructure until it reaches the "gates" of different suppliers, who then provide gas to their customers.

How is natural gas delivered to gas companies?

Over 200,000 miles of transmission pipelines deliver gas to more than 160 million consumers in the United States, Canada, and Mexico. Pipelines serve as the highways of the gas industry, making it possible for sellers and buyers to reach each other.

How is natural gas distributed locally?

If you have gas service in your home/business, your gas is provided by LBGO. LBGO contracts for gas supplies and interstate pipeline transportation to bring natural gas to the "City gate", where LBGO delivers gas to homes, businesses, and industrial plants served by the City's distribution pipelines.

What is a Customer-Owned Service Line?

The section of natural gas pipeline running from LBGO's gas meter to the building structure and/or to any outdoor natural gas consuming appliances such as pool heaters, spas, barbecues, water heater, etc... is called a customer-owned service line(s) and it is the building/property owner's responsibility to maintain that line. LBGO does not maintain customer-owned service line(s).

How do I report an emergency situation?

LBGO conducts continuous pipeline surveys to detect leaks and damaged pipelines before they become a threat to the public. Damage can occur without LBGO's knowledge, and citizens can provide assistance by reporting leaks and evidence of pipeline damage. If you detect a strong natural gas odor, hear a loud hissing sound, or observe bubbling in or around roadways, sidewalks, or public access places such as parks, bridges, and bike paths, call **911** or **(562) 570-2140**. A response team will be dispatched immediately.

Who regulates the Long Beach Gas and Oil Department?

The Long Beach City Council regulates the natural gas rates of LBGO and the Department of Transportation (DOT) regulates the pipeline.

Who uses natural gas?

Residential users, commercial users, industrial users, and electric utilities.

Did You Know?

What do I do if I smell natural gas?

- ◆ Get everyone out of the house/building immediately!
- ◆ Open the doors and windows.
- ◆ If possible, check if any appliances have been left on accidentally or if a pilot light has been extinguished, which would cause the odor (rotten eggs).
- ◆ Do not smoke or strike a match and never operate an electric switch, flashlight, lighter or telephone. Each of these can ignite natural gas. Natural gas by itself will not burn, but with the proper mixture of gas and oxygen combined with an ignition source, combustion will occur.
- ◆ If the source of the odor cannot be located or corrected, **TAKE NO CHANCES**, immediately get out of the house/building, then from a phone at a safe distance from your residence, call **(562) 570-2140**, 24 hours a day, seven days a week. A LBGO representative will come to your home or business and make an inspection at no charge to you.
- ◆ Close the cut-off valve near the gas meter and **DO NOT** turn it on again. A LBGO representative will turn on your services at no charge to you.

Why are flammable vapors dangerous?

Vapors from flammable liquids can explode and catch fire, causing death or severe burns. Also, vapors cannot be seen and they are heavier than air. Finally, vapors can travel from one room to another until they reach a gas appliances' pilot flame. Any type of ignition source such as a pilot light can cause these vapors to start a fire.

Why is it not safe to have objects close to gas appliances?

Any object or chemical can be a fire hazard.

To prevent an accident:

- ◆ Keep paper, curtains, paints, solvents, etc., away from gas appliances.
- ◆ Keep flammable products stored in approved containers with lids tightly closed and out of reach of children.

- ◆ DO NOT use or store flammable products such as gasoline, solvents, or adhesives in the same room or area near the water heater or any other gas appliance.
- ◆ Gas appliances, such as water heaters, that are installed in open garages must be installed eighteen inches (18") above the level of the garage floor. This reduces the risk of gasoline or other flammable vapors being ignited by the main burner or pilot flame.

What is carbon monoxide?

Carbon monoxide is an odorless, tasteless, non-visible gas that can be formed when fuels like charcoal, coal, gasoline, kerosene, natural gas, oil, propane, or wood are burned without sufficient supply of air.

How is carbon monoxide created?

Carbon monoxide can be produced when appliances are not properly installed, maintained, or used; when vent pipes become clogged with debris; when vent pipes have gaps, leaks, spaces, and rust-through spots; also when appliances are improperly vented or when too many appliances are vented to one vent pipe.

What are the symptoms of carbon monoxide poisoning?

Exposure to carbon monoxide poisons the body and can cause serious illness or death. Symptoms may include headaches, dizziness, and nausea. The best prevention for carbon monoxide poisoning is to have appliances installed properly and inspected periodically.

What is an unsafe water temperature for a water heater?

Water temperatures over 125 degrees can cause severe burns. Children, the disabled, and the elderly are at highest risk of being scalded. Before bathing or showering, use your hand to feel the water temperature. **DO NOT TAKE ANY CHANCES, ALWAYS CHECK YOUR WATER HEATER OWNER'S MANUAL.**

What do I need to do before I dig a hole?

Whether you are building an addition, laying a patio, planting a garden, digging a post hole for a mail box, or if you plan to excavate, trench, bore, blast, drill, grade, or just dig somewhere, call **Dig Alert at 1 - 800 - 227 - 2600**. You can also go to our web site: www.lbgo.org for additional information.

Common Uses of Natural Gas

Where is natural gas most commonly used?

- ◆ Water heaters
- ◆ Furnaces
- ◆ Gas dryers
- ◆ Gas stoves/ranges
- ◆ Fireplaces
- ◆ Generators
- ◆ Pools and spas



HELPFUL HINT: Have a trained technician inspect all your gas appliances annually.

What can I do to prevent carbon monoxide?

Prevention is the only way to deal with carbon monoxide; have a trained service technician inspect all your gas appliances. In addition, install at least one carbon monoxide detector in each room of your home. Remember that carbon monoxide is a colorless, odorless, potentially dangerous gas produced when fuel such as gasoline, charcoal, wood, or natural gas burns without enough air to complete combustion. If carbon monoxide is inhaled in large quantities, it can cause unconsciousness, serious illness, or death.

LBGO provides a free service to check and adjust the pilots on your gas appliances and equipment by calling (562) 570-5700.

What are some indicators of carbon monoxide poisoning?

- ◆ Chronic headaches
- ◆ Nausea
- ◆ Irritation of the eyes when indoors
- ◆ Fatigue
- ◆ Coughing and irregular breathing
- ◆ Cherry red lips and ears
- ◆ Overall paleness
- ◆ An unidentified chronic odor inside the home/building
- ◆ Dying house plants
- ◆ Condensation on cool, indoor surfaces
- ◆ Discoloration or soot buildup at warm air outlets of the heating system



2006 January

December 2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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February

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12	13	14	15	16	17	18
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26	27	28				

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Last Day of Kwanzaa New Year's Day	2 City Holiday New Year's Day (Observed)	3	4	5	6	7
8	9	10	11	12	13	14
15	16 City Holiday Martin Luther King Jr. Day	17	18	19	20	21
22	23	24	25	26	27	28
29 Chinese New Year Year of the Dog	30	31				

Residential Appliances

Why use natural gas appliances for cooking?

- ◆ Instant heat
- ◆ Meals cook faster
- ◆ Modern stoves/ranges with automatic pilotless ignition systems save energy
- ◆ Completely sealed burners are easy to clean
- ◆ Gas appliances fit into any type of kitchen layout (wall oven, island, cooktop)
- ◆ Multiple heat settings



HELPFUL HINT: *Never use an oven, range burners, or other unvented natural gas appliance for space heating.*

How do I keep warm in cold weather?

- ◆ Wear a hat. Your head is the biggest source of body heat loss.
- ◆ Wear a sweater.
- ◆ Keep extra blankets on hand.
- ◆ Use your fireplace.
- ◆ Open shades and blinds on sunny days to warm residence naturally.
- ◆ Close shades and blinds at night to reduce heat loss.
- ◆ For heating, set the thermostat at 68 degrees Fahrenheit during the day, 60 degrees Fahrenheit at night, and turn it off when you are on vacation.
- ◆ **DO NOT USE** a barbecue, cooking stove or oven to heat your home.

Where can I get financial assistance with my utility bill?

The City offers various assistance programs:

Low Income Gas Discount Program - Qualified individuals receive a five percent discount off the gas portion of their utility bill. Applications are available in the City Hall Lobby, 333 West Ocean Boulevard; branch libraries; community centers; and the LBGO. For assistance, call (562) 570-2068.

Utility Users Tax Exemption Program - Customers who are at least 62 years or older and customers who have a qualifying disability might be able to receive a discount on gas, water, and refuse. Please call (562) 570-3533 for assistance.



2006 February

January

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March

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
February is Black History Month			1	2 Groundhog Day	3	4
5	6	7	8	9	10	11
12 Lincoln's Birthday	13	14 St. Valentine's Day	15	16	17	18
19	20 City Holiday Presidents' Day (Observed)	21	22 Washington's Birthday	23	24	25
26	27	28				

Natural Gas Water Heater

Why use natural gas for hot water heaters?

- ◆ Ample hot water delivered on demand
- ◆ Multi-tasking, enjoy a bath while the washer or dishwasher are used simultaneously
- ◆ Modern water heaters are space-saving and compact
- ◆ Water is heated up twice as fast as electric water heaters for half of the cost
- ◆ Tankless water heaters save energy



HELPFUL HINT: Read your water heater manual; temperatures over 125 degrees can cause severe burns.

What do I need to know when using hot water in the bathtub?

- ◆ Fill the bathtub **first with cold water**, then add hot water.
- ◆ If you are going to give your child a bath, before you put your child in the bathtub, put your hand all the way in the water; move your hand around the tub to check for hot spots.
- ◆ Always stay with your child during bath time. If you need to leave, TAKE YOUR CHILD WITH YOU.
- ◆ Remember that **water temperatures over 125 degrees can cause severe burns.**
- ◆ If someone is burned, do not panic, cool the burn by holding it under cold running water. DO NOT use butter, ointment, or ice. Cover minor burns with a sterile bandage. If the burns are severe, rush the victim to a hospital or call 911. Do not delay!

How can I use my water heater more efficiently?

- ◆ Take shorter showers instead of baths. You can save up to 5 gallons of water.
- ◆ Run your garbage disposal with cold water only.
- ◆ Be sure to shut off faucets tightly, especially the hot water.
- ◆ At least once a year, drain sediments from your water heater tank. By doing this, proper heat exchange occurs, thus extending the life of your water heater.
- ◆ Lower the thermostat setting to 120 degrees.
- ◆ Remember to set the pilot light on "vacation" when you go out of town.



2006

March

February

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April

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Ash Wednesday	2	3	4
5 First Day of Lent	6	7	8 International Women's Day	9	10	11
12	13	14	15	16	17 St. Patrick's Day	18
19	20 First Day of Spring	21	22	23	24	25
26	27	28	29	31	31	

Natural Gas Dryers

Why dry clothes with a natural gas dryer?

- ◆ Gas dryers operate at 1/3 the cost of electric clothes dryers
- ◆ Shorter cycles are gentler to your clothing
- ◆ Less wrinkles and static on clothes
- ◆ Modern gas dryers have moisture-sensors to prevent over drying
- ◆ Simple and safe to operate
- ◆ Modern appliances can handle greater loads



HELPFUL HINT: For energy saving tips, refer to the LBGO website at www.lbgo.org.

What are some energy saving tips for drying clothes?

- ◆ Dry full loads only.
- ◆ Dry clothes together that need the same time and temperature.
- ◆ Clean the lint filter before every load.
- ◆ Periodically, rinse the lint filter with warm water and soap.
- ◆ Use the automatic cycle.
- ◆ Dry your clothes outdoors on sunny days.
- ◆ Do not over-dry clothes. Over-drying wastes energy and reduces the life of clothes.
- ◆ Check your dryer's vent for any obstructions.

Why it is better to keep gas appliance pilots lit year round?

Leaving your pilot lights on your gas appliances lit year-round can save you money. When pilot lights are turned off, it can cause several problems with your heating appliances:

- ✓ Spiders frequently use this area to build nests.
- ✓ A safety device installed on gas heating appliances, called a thermocouple, can crack and fail, requiring a plumber or heating company to replace it.

LBGO Customer Service Representatives will re-light appliance pilots free of charge once a year. However, additional service calls for appliance pilot lighting, will be billed to your account at \$25 per visit.



2006

April

March

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May

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28	29	30	31			

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 April Fools' Day
2 Daylight Saving Time Begins	3	4	5	6	7 Toyota Grand Prix of Long Beach	8 Toyota Grand Prix of Long Beach
9 Toyota Grand Prix of Long Beach Palm Sunday	10	11 Long Beach Primary Nominating Elections	12 Passover Begins at Sundown	13 Passover	14 Good Friday	15 Cambodian New Year
16 Easter Cambodian New Year	17 Tax Day	18	19	20 Last Day of Passover	21	22 Earth Day
23 30	24	25 Holocaust Remembrance Day	26 Secretaries' Day	27	28	29

Long Beach Gas and Oil Department
2400 E. Spring St., Long Beach, CA 90806

Phone Number: (562) 570-5700

Emergency Number: (562) 570-2140
Email Address: www.lbgo.org

Cars Powered by Natural Gas

Why use natural gas in vehicles?

- ◆ Cheaper than gasoline
- ◆ Clean burning fuel
- ◆ Better for the environment
- ◆ Longer engine life
- ◆ Lower maintenance costs
- ◆ Natural gas is a domestic fuel in the United States



HELPFUL HINT: Reduce hot water use by installing low-flow showerheads and faucet aerators.

What are some of the petroleum based products that we use in our daily lives?

Adhesives	Beach umbrellas	Deodorant	Fishing rods	Kevlar	Recording tape
Ammonia	Boats	Detergents	Floor wax	Life jackets	Refrigerators
Anesthetics	Cameras	Dishwashing liquid	Food preservatives	Linoleum	Safety glass
Antifreeze	Candles	Dresses	Footballs	Lipstick	Telephones
Antihistamines	Car enamel	Drinking cups	Glycerin	Model cars	Tires
Antiseptics	Cassettes	Dyes	Hair coloring	Mops	Umbrellas
Artificial limbs	Caulking	Electric blankets	Hand lotion	Nail polish	Unbreakable dishes
Artificial turf	Cold cream	Electrical tape	Heart valves	Nylon rope	Vaporizers
Aspirin	Combs	Enamel	House paint	Oil filters	Vitamin capsules
Balloons	Credit cards	Epoxy paint	Ice buckets/chests	Paint brushes	Waders
Ballpoint pens	Dashboards	Fan belts	Insecticides	Perfumes	Xeroxing ink
Bandages	Dentures	Fertilizers	Insulation	Petroleum jelly	Yarn
Boats	Denture adhesives	Flavorings	Jumpsuits	Quinine (synthetic)	Zippers



2006
May

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April

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June

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Cinco de Mayo	6
7	8	9	10	11	12	13
14 Mother's Day	15	16	17	18	19	20 Armed Forces Day
21	22	23	24	25	26	27
28	29 City Holiday Memorial Day (Observed)	30	31			

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Natural Gas Grills

Why use gas grills for cooking outdoors?

- ◆ Enjoy cooking outdoors all year round
- ◆ Never run out of fuel to cook
- ◆ No tanks to refill and no messy charcoal



- ◆ Modern natural gas grills have adjustable burner controls, push button spark ignition, and easy to clean cooking grates
- ◆ Food cooked with natural gas keeps its flavor better than charcoal



HELPFUL HINT: Before you dig, call Dig Alert at 1-800-227-2600.

How can I save energy when cooking?

- ◆ If you are buying a new gas range, consider a brand with a pilotless ignition system. Modern gas appliances use about 30 percent less gas than models with continuously burning pilots.
- ◆ Partially thaw frozen food in the refrigerator before you cook it.
- ◆ Try to preheat your oven as little as possible. If you need to preheat your oven, do it only for ten minutes.
- ◆ Do not turn your stove/oven on until you are ready to start cooking.
- ◆ Plan your meals beforehand.
- ◆ If you are going to boil water, start with water that is already hot from your kitchen faucet.
- ◆ Use your grill to cook.
- ◆ Turn your stove dial to a lower setting as soon as food or water begins to boil.
- ◆ Do not open the oven door to check on food while cooking. Every time you open the oven door, you waste 25 percent of the heat.
- ◆ Have all your ingredients and condiments close at hand.
- ◆ When possible, try to combine different ingredients into one cooking pan.
- ◆ Cook small portions of food.
- ◆ Use oven-safe glass or ceramic pans. You can set your oven temperature 25 degrees lower.
- ◆ 15 to 20 minutes before the end of cooking time, turn off the oven. If you do not open the oven door, the leftover heat will finish cooking your food.



2006

June

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May 28	29	30	31			

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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July 23	24	25	26	27	28	29
30	31					

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6 Long Beach General Municipal Elections	7	8	9	10
11 Children's Day	12	13	14 Flag Day	15	16	17
18 Father's Day	19 Juneteenth	20	21 First Day of Summer	22	23	24
25	26	27	28	29	30	

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Natural Gas Air-Conditioning

Why use natural gas air-conditioning at home?

- ◆ Efficient and economical energy use
- ◆ Multiple zone comfort control
- ◆ Minimal duct work
- ◆ Environmentally friendly
- ◆ Low maintenance
- ◆ Longer life than electrical systems



HELPFUL HINT: Clean furnace filters monthly and keep attic vents open.

What are some energy saving tips during summer?

- ◆ Set your thermostat to 78 degrees Fahrenheit or higher during the summer.
- ◆ Set your thermostat at 85 degrees Fahrenheit or higher when you leave your home for more than four hours.
- ◆ Close the windows on very hot days and then open them at night to let the cool air in.
- ◆ Cook early in the day or use your gas grill.
- ◆ Fans generate air movement, which makes people feel cooler.
- ◆ Use drapes, shutters, awnings, and shade trees to keep sun light out.
- ◆ Take advantage of breezy days by opening doors and windows to let the cool air into your house.
- ◆ Turn off all your appliances/lights when they are not in use.
- ◆ Prepare cool meals such as salads and sandwiches.
- ◆ Wash your dishes at night.
- ◆ Avoid using large quantities of water during peak hours.
- ◆ Switch pool filters, sweeper operations, and spa filters to off-peak hours.
- ◆ Keep your spa or pool covered when not in use.
- ◆ Use the correct amount of detergent to avoid washing clothes twice to remove soap residue.
- ◆ Plant two mature trees on the west side of your home and one on the east side to reduce your home's air conditioning needs.



2006
July

June

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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August

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
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2	3	4 City Holiday Independence Day	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24 31	25	26	27	28	29

Pool and Spa Heaters

Why use natural gas to heat pools and spas?

- ◆ Water is heated for shorter duration of time
- ◆ Water temperature can be maintained regardless of the weather conditions
- ◆ Ideal back up heaters for spas
- ◆ Gas heaters have an efficiency between 60% and 80%
- ◆ Gas heaters last an average of five or more years



Instant
Comfort

HELPFUL HINT: Re-apply for the Annual Low Income Gas Discount Program before September 30, 2006. For more information call (562) 570-2068.

How can I recognize a pipeline leak?

- ◆ An unusual smell
- ◆ Dying vegetation around pipeline
- ◆ Cracked and dry ground around pipeline
- ◆ An unusual noise coming from the pipeline, like a hissing sound
- ◆ Dirt blowing up from the ground

If you smell gas, remember not to turn electrical switches on or off, or use a flashlight or telephone because the electricity may spark and cause a fire. Although leaks in natural gas pipelines rarely occur, some leaks are a result of natural disasters, hidden corrosion, and damage by third-party contractors. The latter cause is the most prevalent, so before you dig, please call **1-800-227-2600**.

What do I need to do before the heating season begins?

Have a qualified contractor provide the following services:

- ◆ Replace furnace filters
- ◆ Clean and lubricate gas appliances
- ◆ Adjust any pilots and burners

A qualified contractor also needs to check:

- ◆ Heat exchangers for cracks, rust, and corrosion
- ◆ Vents and pipes for any obstructions
- ◆ Proper ventilation of gas appliances
- ◆ A sharp blue flame is produced in the gas appliances

Remember to keep any flammable materials outdoors and in approved containers, away from your stove, water heater, and other gas appliances.



2006 August

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1						1	2
2	3	4	5	6	7	8	3	4	5	6	7	8	9
9	10	11	12	13	14	15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	17	18	19	20	21	22	23
July 23	24	25	26	27	28	29	September 24	25	26	27	28	29	30
30	31												

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9 International Youth Day	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Co-Generation

Why use natural gas to produce electricity?

- ◆ Simultaneous production of electricity and useful 'waste' heat
- ◆ No hot by-products wasted
- ◆ 30% reduction in CO₂ emissions
- ◆ Quick start-up time provides large amounts of power on short notice
- ◆ Energy efficient and economical



HELPFUL HINT: Prevent delays before the cold season starts, call (562) 570- 5700 to schedule your pilot lighting appointment now.

What are the four basic components to energy efficiency?

Economize: Think of all appliances that are powered by both gas and electricity. With so many of them, it is easy to take for granted that energy will always be plentiful. The most important thing to remember when using energy is to shut off appliances not in use.

Repair leaks: Simply installing weather stripping and caulking leaky doors and windows can save on energy costs. Leaks are the greatest enemies in your energy efficiency program.

Invest in energy-saving home improvements: Look for EnergyStar appliances.

Install energy-saving devices: Clean furnace filters once a month, use fluorescent light bulbs, install insulation on your water heater, and use low flow shower heads. All of these devices combined can save heating and cooling costs.

Facts about Oil Operations

What are the Tidelands?

Tidelands are the filled or unfilled tidal and submerged land granted to the City under *TRUST* by the State of California. They range from mean high tide to three nautical miles offshore.

What is Subsidence?

Subsidence is the sinking or gradual settling of the earth's land surface or seafloor. It can result from either natural and/or man-made causes and can vary in size from a few acres to thousands of square miles.



2006 September

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		1	2	3	4	5
6	7	8	9	10	11	12
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27	28	29	30	31		

August

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

October

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Schedule your pilot lighting appointment by calling (562) 570-5700					1	2
3	4 City Holiday Labor Day	5	6	7	8	9
10 Grandparents' Day	11 Patriot Day	12	13	14	15 National Hispanic Heritage Month Begins	16 Mexican Independence Day
17 Citizenship Day	18	19 International Day of Peace	20	21	22 Rosh Hashanah Begins at Sundown	23 Rosh Hashanah Ramadan Begins at Sundown
24 Ramadan	25	26	27	28	29	30

Long Beach Gas and Oil Department
2400 E. Spring St., Long Beach, CA 90806

Phone Number: (562) 570-5700

Emergency Number: (562) 570-2140
Email Address: www.lbgo.org

History of Oil in the City of Long Beach

When were the tidelands granted to the City?

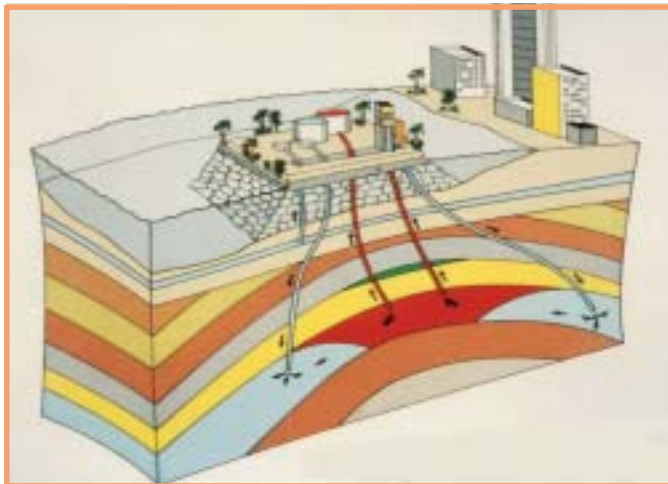
From legislation in 1911 through 1935, the State of California granted to the City all of the tidelands within its city limits. The tidelands are defined as the area of mean high tide line to three nautical miles offshore. The City received these properties in trust for the purposes of developing commerce, navigation, fisheries, and recreation. When oil was discovered in the tidelands and adjacent lands in the 1930's, the City realized it needed to protect its assets and those of the State of California. The California Supreme Court ruled in 1938 that the development and production of oil from the tidelands was compatible with the trust of the tidelands granted the City.

Who in the City of Long Beach oversees the oil operations?

In 1939, the Harbor Department created the Petroleum Division to provide technical assistance and advice to the Harbor Commission on all matters pertaining to oil operations in the Harbor District. It ensured compliance with operating agreements and the use of sound engineering in oil field practices. The City Council and City Manager created the Petroleum Properties Administration in 1962 to oversee all oil operations outside the Harbor District and then created the Department of Oil Properties in 1965 to control oil operations throughout the City. Today, LBGO coordinates all oil operations and subsidence control activities throughout the entire City.

Who manages the oil operations?

LBGO is the Unit Operator of the Wilmington Oil Field and oversees the work of two private contractors that control the day-to-day operations in the field. Today, the Wilmington Oil Field produces approximately 40,000 barrels of oil per day (one barrel is equal to 42 gallons) and over 1,000,000 barrels of water per day from over 1,500 active wells.



Where is the Wilmington Oil Field located?

The Wilmington Oil Field is the third largest oil field in the contiguous United States. The field is seven miles long, three miles wide, and stretches from the western end of Long Beach to Seal Beach on the east. The field is divided vertically by faults creating separate producing entities called fault blocks.

Where is oil produced?

Oil is produced from seven major sand intervals ranging in depths from 2,000 feet to 11,000 below the ground. Two and one-half billion barrels of oil have been produced to date. Over 5,500 wells have been drilled through the years to produce oil, but only 1,500 wells are currently in use now, the remainder have been abandoned.



2006 October

September

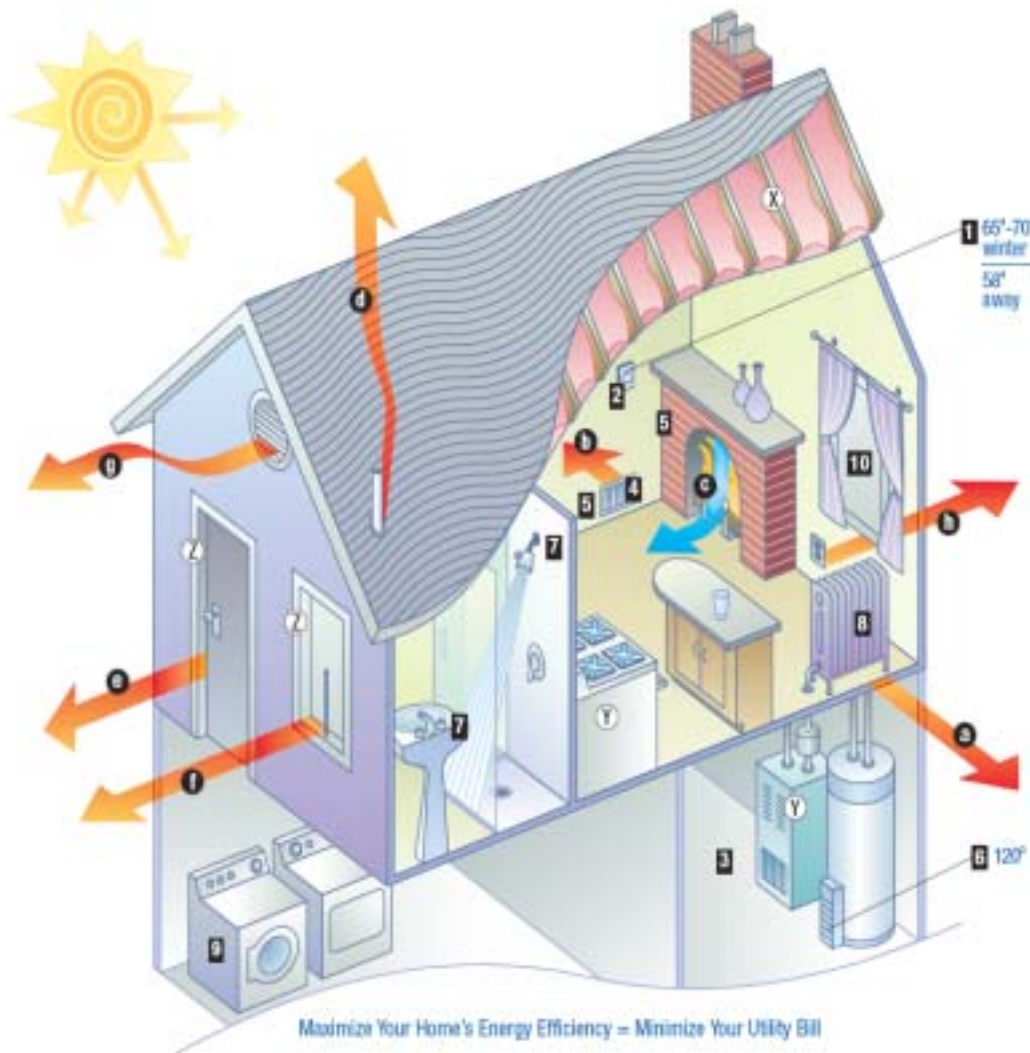
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

November

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Yom Kippur Begins at Sundown October is Breast Cancer Awareness Month	2 Yom Kippur	3	4	5	6	7
8	9 Columbus Day (Observed)	10	11	12	13	14
15 National Hispanic Heritage Month Ends	16 National Boss's Day	17	18	19	20	21
22	23	24	25	26	27	28
29 Daylight Saving Time Ends	30	31 Halloween	Schedule your pilot lighting appointment by calling (562) 570-5700			

Using Energy Wisely



How do I keep the cold out?

Seal leaks around doors, windows, and other openings such as pipes or ducts, with caulk or weather-stripping.

What are the most common places where air escapes in homes?

- a) Floors, walls, and ceilings
- b) Ducts
- c) Fireplace
- d) Plumbing penetrations
- e) Doors
- f) Windows
- g) Fans and vents
- h) Electrical outlets



How can I use energy wisely?

- 1) Set thermostats between 65 and 70 degrees during winter and at 58 degrees when away from the house for more than a four hours.
- 2) Install a programmable thermostat.
- 3) Change furnace filters once a month during the heating season.
- 4) Use registers to direct warm airflow across the floor.
- 5) Close vents and doors in unused rooms.
- 6) Set water heater temperatures at 120 degrees.
- 7) Install water-flow restrictors in showerheads and faucets.
- 8) Before the heating season begins, it's important to perform routine maintenance of your radiators to assure proper and efficient operation.
- 9) Run the washing machine and clothes dryer with a full load.
- 10) On sunny days, open draperies and blinds to let the sun's warmth in. Close them at night to insulate against cold air outside.

How do I plan for long-term energy-efficiency improvements?

- X) Check to see if attic has the recommended levels of insulation.
- Y) Check the heating system and replace old, outdated appliances with high-efficiency natural gas models.
- Z) Install storm or thermal windows and doors or double-paned glass.



2006 November

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

October

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

December

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7 Election Day	8	9	10 Veterans' Day (Observed)	11 Veterans' Day
12	13	14	15	16	17	18
19	20	21	22	23 City Holiday Thanksgiving Day	24 City Holiday	25
26	27	28	29	30		

Energy Saving Tips for Businesses

Office equipment

- ◆ Turn off computers, monitors, printers, copiers, and lights every night and weekend.
- ◆ If you cannot turn off the whole computer, turn off the monitor and printer.
- ◆ When purchasing computers, monitors, printers, fax machines, and copiers, consider EnergyStar models that “power down” after a user-specified period of inactivity.
- ◆ Use laptop computers - they consume 90% less energy than standard desktop computers.
- ◆ Use ink-jet printers - they consume 90% less energy than laser printers.
- ◆ Implement paper-reducing strategies such as double-sided printing and reuse of paper.
- ◆ Use email instead of sending memos or faxing documents.

Lighting

- ◆ Retrofit T12 lights with magnetic ballasts to T8 lights with electronic ballasts.
- ◆ Retrofit incandescent light bulbs with compact fluorescent lights.
- ◆ Consider removing excess fluorescent lights and installing reflectors.
- ◆ Turn off nonessential and decorative lighting, especially in unoccupied areas.
- ◆ Use task lighting to directly illuminate work areas instead of area lighting.
- ◆ Lower the height of light fixtures to increase usable light.
- ◆ Install motion detectors or dimmers to control lighting in frequently unoccupied areas.

Heating Ventilation and Air Conditioning (HVAC)

- ◆ Install time clocks or setback-programmable thermostats to maximize efficiency.
- ◆ Install locking covers on thermostats to prevent employee tampering with temperature settings.

- ◆ Install ceiling fans.
- ◆ Install blinds, or solar screens to cool the office.
- ◆ Install reflective window film or awnings on all south- and west-facing windows.
- ◆ In the summer, close shades or blinds during early morning and late evening to reduce solar heat gain. In the winter, open shades and blinds on sunny days to warm buildings naturally, and close them at night to reduce heat loss.

Weatherization

- ◆ Install weather stripping around exterior doors and operable windows, and around doors between heated and unheated or cooled and uncooled places.
- ◆ Install door bottoms or threshold to seal gaps beneath exterior doors.
- ◆ Insulate exterior walls and floors, and insulate roof or ceiling spaces to R-19 standards or above whenever possible.
- ◆ Caulk cracks and gaps around windows and doors.

Refrigeration

- ◆ Perform scheduled maintenance on all units.
- ◆ Keep coils clean and free of ice buildup.
- ◆ Adjust latches and replace worn door gaskets.
- ◆ Remove internal shelf lighting to reduce refrigeration and lighting energy use.

Food service equipment

- ◆ Consider replacing some or all electrical cooking equipment with comparably sized gas-fired equipment.
- ◆ Check oven doors for a tight fit.
- ◆ Use cooking equipment to capacity.
- ◆ Turn off back up stoves during low production periods.
- ◆ Don't overload fryer basket beyond the recommended capacity.
- ◆ Turn ovens down or off during low production periods.



2006

December

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

November

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

January 2007

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 World AIDS Day	2
3	4	5	6	7 Pearl Harbor Remembrance Day	8	9
10	11	12 Fiesta of Our Lady of Guadalupe	13	14	15 Hanukkah Begins at Sundown	16 Hanukkah
17	18	19	20	21	22 First Day of Winter	23
24 Christmas Eve New Year's Eve 31	25 City Holiday Christmas Day	26 First Day of Kwanzaa	27	28	29	30

Long Beach Gas and Oil Department
2400 E. Spring St., Long Beach, CA 90806

Phone Number: (562) 570-5700

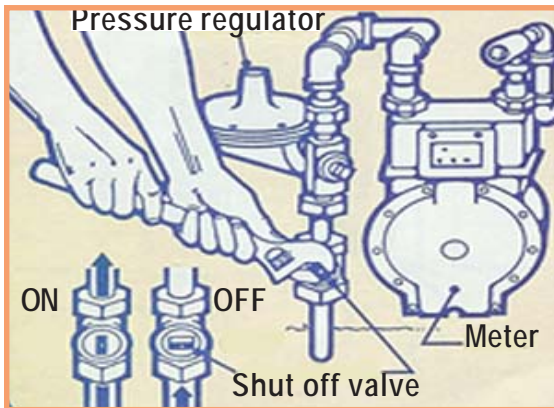
Emergency Number: (562) 570-2140
Email Address: www.lbgo.org

Did You Know?

How to shut off gas in emergencies?

- ◆ Before an emergency, know where your gas meter is located.
- ◆ Have a wrench stored where it can easily be found.
- ◆ Using the wrench, give the shut off valve a quarter turn in either direction so that it runs cross wise on the pipe. The line is now closed.

**Close shut off valve ONLY if you smell gas after an earthquake.*



Where are gas lines located?

Main gas lines are located underground in public rights of way such as streets, alleys, and parkways.

Where do gas lines originate?

Gas lines serving individual building structures originate at the main gas line and run through your property to the gas meter location.

What are some facts about gas lines?

Gas lines are typically 3/4 to 1/4 inches in diameter and are buried 6 to 36 inches below the surface. Ordinary lawn and gardening activities should pose no threat to these lines.

What construction activities might pose a threat?

Tree planting, installing sprinklers systems and installing fence posts may pose a threat to the gas service line by scoring the pipe wall or putting a hole in the gas line during digging.

What do I need to do before digging?

In order to avoid damage to underground utilities, call **Dig Alert at 1-800-227-2600** two working days prior to digging. A representative will locate and mark your gas service line for you. Please help avoid costly damage, service interruption, and possible injury to yourself and others.

How do I recognize a leak?

If you detect a strong natural gas odor (rotten eggs), hear a loud hissing sound, or observe bubbling in or around roadways, sidewalks, or public areas such as parks, bridges, and bike paths, call **911** or LBGO at **(562) 570-2140**, 24 hours a day, seven days a week.

Who maintains and repairs the gas pipelines?

LBGO conducts continuous pipeline surveys to detect leaks and repairs and maintains damaged pipelines before they become a threat to public safety.

How can I assist the LBGO?

Anytime you smell gas, please make sure to call us. Damage can occur without our knowledge and citizens can provide assistance by reporting leaks and any evidence of pipeline damage at **(562) 570-2140**, 24 hours a day, seven days a week.

How do I know if I live near a high pressure pipeline?

Look for markers such as this one below:



What do I do if a leak occurs?

- ◆ If you are doing construction work, **TURN OFF** any equipment being used for digging.
- ◆ Leave the area immediately.
- ◆ From a safe location, call us at **(562) 570-2140** - give a description of the leak and its location.
- ◆ When possible, warn others to stay away.
- ◆ **DO NOT** light a match, start an engine, use a cell phone, turn on or turn off a light switch, or do anything that may create a spark.
- ◆ **DO NOT** try to operate gas meter valves
- ◆ **DO NOT** drive your car into a leak or vapor cloud area.

How Can I Receive Utility Assistance?

Did You Know?

Low Income Gas Discount Program

Customers may apply at any time for the Low Income Gas Discount Program. Qualified individuals receive a 5 percent discount off the gas portion of their utility bill. Applications must be renewed annually and are available in the City Hall Lobby, 333 West Ocean Boulevard, branch libraries, community centers, and at the LBGO. For further assistance, call (562) 570-2068.

Utility Users Tax Exemption Program (Seniors and/or Disabled)

To qualify, customers must be at least 62 years of age or older, or have a qualifying disability as defined in Section 223 of the Social Security Act (42 U.S.C. 423) and Section 102(b)(5) of the Developmentally Disabled Assistance and Bill of Rights Act [42 U.S.C. 6001(7)], or in whose household a qualified disabled person resides. Customers must reapply if they have a change of address. If a customer qualifies under this program, he/she receives a discount on gas, water, refuse, and sewer bill.

Low Income Home Energy Assistance Program

Eligible low-income persons, via local governmental and nonprofit organizations, can receive financial assistance to offset their energy utility bills, and/or have their dwellings weatherized to make them more energy efficient. This is accomplished through these three program components: Weatherization Program, Home Energy Assistance Program, and the Energy Crisis Intervention Program.

The **Weatherization Program** provides free weatherization services to improve the energy efficiency of homes, including attic insulation, weather-stripping, minor housing repairs, and related energy conservation measures.

The **Home Energy Assistance Program (HEAP)** provides financial assistance to eligible households to offset the costs of heating and/or cooling dwellings. The bill does not have to be delinquent for qualified persons to apply for assistance. Program runs from October 1st through September 30th each year.

The **Energy Crisis Intervention Program (ECIP)** provides payments for weather-related or energy-related emergencies.

Customers may apply for assistance once each program year. To obtain an application, contact:

Veterans in Community Service, Inc. (VICS)

Home Energy Assistance Program (HEAP)

10260 Matern Place

Santa Fe Springs, CA 90670-3248

Phone (562) 204-0516. Fax (562) 204-0540

Monday through Thursday, 8:00 AM to 4:00 PM,
except on holidays

Efficient use of energy can make your home more comfortable and will save you money over time, while you help to conserve our nation's resources. Visit these websites for additional information:

www.lbgo.org

www.FlexYourPower.com

www.SCE.com

www.Energy.ca.gov

www.longbeach.gov



Natural Disasters and Emergency Preparedness

What do I need to prepare before an emergency?

- ◆ Have an emergency plan.
- ◆ Conduct an emergency drill with your family.
- ◆ Have an evacuation plan for your home/business.
- ◆ Have a location where your family/employees will reunite after an emergency.
- ◆ Know all locations of emergency exits and fire extinguishers.
- ◆ Have an alternative way to contact others who may not be at home/business.
- ◆ Have an emergency kit.
- ◆ Know when, how, and what to use to turn off all utilities.
- ◆ Check all your gas and other home gas appliances to ensure they can withstand a serious earthquake or other emergency.
- ◆ Replace batteries in all your smoke alarms and carbon monoxide detectors.

Where can I get information during an emergency?

If there is a significant event in Long Beach, information will be sent to all TV, radio, and print media. You can also obtain information in the following ways:

- ◆ Listen to FM radio station KKJZ, 88.1
- ◆ Read - www.longbeach.gov
- ◆ Read - www.LBReport.com
- ◆ Watch LBTv, Charter Communications Channel 8
- ◆ Check your email. Messages will be sent to everyone who has signed up to receive the City's E-Notify.



Long Beach Gas and Oil Department
2400 East Spring Street
Long Beach, CA 90806-2285
www.lbgo.org

What do I do after an emergency?

- ◆ Make sure everyone is safe.
- ◆ Inspect your home/building for damage.
- ◆ If you suspect a gas leak, DO NOT turn on electrical switches, appliances, or telephones. Immediately evacuate the area and, from a safe distance, call **(562) 570-2140**.
- ◆ If it is safe to do so, turn off the gas service. DO NOT turn off the gas unless you smell gas, hear gas escaping, see a broken gas line, or if you suspect a gas leak.
- ◆ If you see fire coming out from a leaking gas pipe, DO NOT try to put out the flames. Immediately call **911** and the emergency gas line at **(562) 570-2140**.
- ◆ Once gas is shut off, do not try to turn it back on. Contact us at **(562) 570-5700** to restart your services.
- ◆ Check for any down or damaged electric utility lines. DO NOT touch the wires lying on the ground or any wire that is hanging on poles, or objects close to wires.

**Prepared in compliance
with U.S. Department of
Transportation (DOT)
Required Practice
(RP) 1162 by the LBGO
Energy Services Division.**



“WORKING TOGETHER TO SERVE”